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ABSTRACT

Selected for their focus on man, acting to know, preserve and improve his environment, the items noted in this booklet furnish a resource base for developing an environmental ethic. Introductory statements enumerate values, understandings, and realizations to be developed and sample activities that may be conducted or adapted for grades K-12. Resources, the major component, provides an annotated listing of films, filmstrips, printed material (books, pamphlets, charts, kits, newsletters and workbooks), periodicals, records, games, and organizations. Concluding the work are commitments one can make to practice conservation and help improve his environment. (BL)

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A BEGINNING

Prepared for the
Sierra Club Conference
on Education for Environmental Awareness

SE015 325

Before this century is done, there will be an evolution in our values and the values of human society, not because man has become more civilized but because, on a blighted earth, he will have no choice. This evolution — actually a revolution whose violence will depend on the violence with which it is met — must aim at an order of things that treats man and his habitat with respect.

— Peter Matthiessen, *Everglades*

WHAT'S INSIDE ???

1 Objectives

2 Activities

3 Resources

- Films
- Filmstrips
- Printed Materials
  - $18 Environmental Bookshelf
  - Literature
  - A Variety
  - Periodicals
- Records
- Games
- Organizations

WHAT'S INSIDE is NOT a definitive survey of available conservation education materials.

IT IS a selection of materials we've seen or used — materials which have validity in any program which focuses on MAN, acting to know, preserve and improve his ENVIRONMENT.

SELECTED AND ANNOTATED BY

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OBJECTIVES

values
understandings
realizations

1 The student will develop a growing realization that mankind cannot continue in his old, traditional ways of dealing with his world. These attitudes in the past have led, in part, to the present environmental crisis.

2 The student will become aware of the kinds of things which have happened to our environment, such as the destruction of natural resources, the pollution of the atmosphere, the demise of natural places that give "birth" to ecological sub-groups (estuaries, woodlands, waterways, etc.), the overcrowding of our urban areas, and the sure, gradual loss of scenic beauty.

3 The student will begin to understand that conservation is the responsibility of everybody — a responsibility to be shared and practiced day in and day out throughout life; that this is a world-wide necessity which transcends political boundaries and man-made laws.

4 The student will begin to realize that the world is constantly changing, for better or for worse, and how it changes will depend upon the values and actions of mankind.

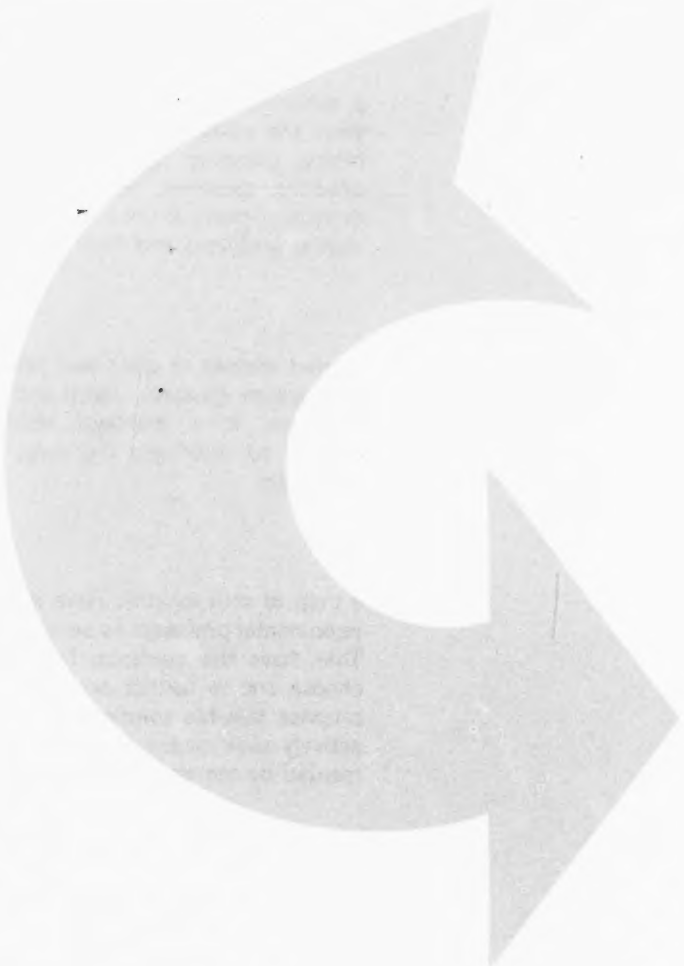
5 The student will come to understand that many times it is necessary to preserve things simply for their esthetic beauty, rather than allow that beauty to vanish in order for man to gain economically.

6 The student will be encouraged to carry forth, as far as possible, the never-ending study of how and why all living things are bound up together in a countless, and often subtle, series of inter-relationships (ecology).

7 The student will be encouraged to develop an attitude of hopefulness that the world can be made better through the improvement of our ecological climate; he will try to dispel the predictions of doom and will attempt to see through the irresponsible attitudes and actions of some groups and individuals.

Adapted from the Objectives of
a Conservation Course of Study
DeWitt E. Hogle
Mt. View, California

ACTIVITIES



Possible class activities are numerous, bound only by the scope of an individual teacher's imagination. Below are just a few which can be adapted and used in the appropriate grade level, K-12.

Write new environmental laws in junior and senior high school classes, which could be submitted to the state legislature. Students could do research and debate the merits of the proposed law in class. At lower grade levels, students might devise and implement regulations regarding the immediate school environment.

Stage a school-based environmental conservation fair. Involve the school and community in constructing exhibits, planning demonstrations, making posters, securing speakers, selecting films and preparing dramatic presentations concerning local environmental problems and their possible solutions.

Study an endangered species in class and prepare a full-scale advertising campaign (posters, radio and T.V. spot commercials, brief 8mm. films, displays) which will acquaint the public with the situation and the steps they might take to lessen the danger.

Make a map of your locality. Have each student X the environmental problems he sees in the area on his copy. Then have the students, individually or in groups, choose one to further research. Encourage them to propose feasible solutions to the problem and then actively seek means of having their solutions implemented by community officials.

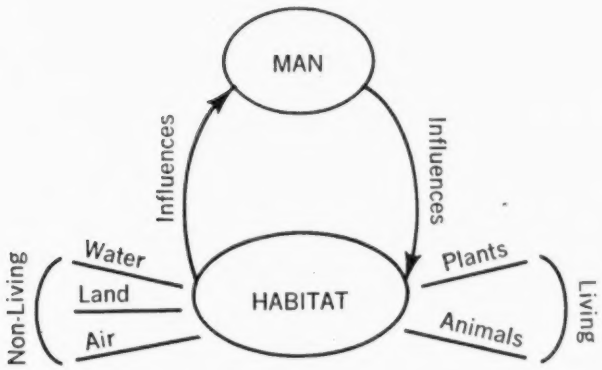
either a class or school bulletin board of "eco-pornography", which is described in **The Environmental Handbook** as those ads in which major industrial concerns loudly and **cleverly** claim to be solving some facet of the environmental crisis when actually they are misinterpreting the problem or merely clouding their guilt in rhetoric. Have students research and write up refutations of the ads for display with them.

Conduct an environmental-conservation song writing contest in your school. Tape the winning songs and play them over the local p.a. system. Offer them to local radio and T.V. stations for broadcast.

Prepare a multi-media show highlighting a local environmental problem and suggesting possible solutions. Have students use some combination of the following: slides, on-the-spot cassette tapes, 8mm films, records, light shows. A suggested simple subject to begin: "The Two Faces of ..... School".

Publish a monthly class newsletter "Notes on the Environment", featuring an endangered animal of the month, an interesting project or experiment for the students to try, a cross-word puzzle which includes ecological terms, local environmental news, vocabulary words, student drawings or cartoons, a listing of up-coming television programs and a listing of current environmental action programs in the area.

an inter-disciplinary course (science, literature, social studies, composition) using the following concept model as a focus:



For example, Urbanization in San Francisco might be a focus, with each of the disciplines planning concurrent activities for students studying some facet of the concept.

a brief, conservation-oriented literature unit. Use the following two short stories:

"THE SNAKE" by Erwin Kraus, found in **Explication and Review B,** a sourcebook for teachers which accompanies **Counterpoint In Literature,** the 8th grade California State literature text. It was originally published by Scott, Foresman and Company, Glenview, Illinois 60025.

"THE LIFE AND DEATH OF A WESTERN GLADIATOR" by Charles G. Finney, found in **An Outlook Through Literature,** a 9th grade literature text published by Scott, Foresman and Company, Glenview, Illinois 60025.

and the poem:

"THE SNAKE" by D. H. Lawrence found in **Counterpoint in Literature,** described above.

These stories and the poem should be read and discussed primarily for the differing attitudes toward nature which the various characters and authors express.

Make your school an environmental laboratory. Growing in popularity all over the country is the school-site or nearby ecological preserve. Below are listed some current materials which describe, in detail, ways of designing and using these areas:

Man and His Environment is an introduction to using Environmental Study Areas which is published by the Association of Classroom Treachers of the National Education Association. This book explains a different kind of environmental learning experience that makes imaginative use of both the cultural and and natural worlds as they combine to make up the study areas. The areas, together with the study guide materials developed for the area and the regular school curriculum, help students relate to their world. The NESA guidelines provide the framework which each local area can adapt to its own needs. Available at $1.75 from Publications-Sales Section, National Education Association, 1201 Sixteenth St., N.W., Washington, D.C. 20036.

The Community School Site, a laboratory for learning, is published by the U.S. Department of Agriculture, Soil Conservation Service, in March 1970. This booklet is about adapting school grounds to a teaching environment. The first part explains how to organize your plans and get started while the second part outlines possible activities for many different areas of the curriculum. Available from the U.S. Department of Agriculture, Soil Conservation Service, 2020 Milvia Street, Berkeley, California 94704.

Outdoor Education on YOUR School Grounds is an action approach to better teaching, a Manual for elementary and junior high school teachers by Norman F. Marsh. No jargon here, just 83 pages of activities and projects with clear plans and diagrams drawn when necessary. An excellent resource for teachers in all areas. Available free, one per school, from The Department of Education, Office of Conservation, Sacramento, California 95814.

Conservation in Miniature, A Low Budget Environmental Program With a High Educational Return, was written by Ralph I. Turner. The procedures outlined in this book will enable a school district to reproduce completely an innovative, low-cost science conservation program. Also, individual teachers will find techniques, ideas and lesson plans structured on the "discovery" approach. Available free, one per school, from The Department of Education, Office of Conservation, Sacramento, California 95814.

RESOURCES

films films films

SELECTED FILMS FOR ENVIRONMENTAL EDUCATION

annotated by Dr. Bob O'Brien
San Diego State College

Films are a virtual necessity for effective environmental education. No conservationist ever becomes convinced of the necessity of preserving a landscape say, without experiencing it in some personal way. The printed word can sometimes be effective this way, but a feeling for nature and wildlife, an abhorrence of pollution and an appreciation of a scenic landscape can best be transmitted visually.

There are a wide range of conservation films available, but the purpose here is to offer the teacher a sampling of several types of films and to indicate the quality of films available in the field. **A Critical Index of Films and Filmstrips in Conservation,** Conservation Foundation, 30 East 40th St., N.Y. offers a film bibliography and a valuable rating of films by grade level.

1. **THE BALD EAGLE** — Color (C) — 33 minutes long (m) — National Audubon Society, 1130 - 5th Ave., New York, N.Y. 10028. (Rental)

This is a beautiful film, offering long, unhurried closeup of eagles hunting, nesting and growing to maturity. It is a "soft" conservation film, designed to create interest in the bald eagle rather than dwelling on the dangers which the bird faces. A knowledgeable teacher, tapping a ready-made concern in the survival of our national bird, can then describe the accidental shootings, habitat destruction and pesticides which imperil the bird.

2. **CALIFORNIA — THREE IMAGES** — C — 15m — American Institute of Architects — Northern California Chapter, 254 Sutter St., San Francisco. (Free)

This slide presentation obtains its effectiveness by contrasting the good and the bad in our use of the environment in California. A teacher can get ideas here, perhaps leading to a personal presentation using a similar technique. Nothing is as effective as a presentation which can draw on local familiarity with a subject.

3. **EVERGLADES** — C — 28m — Sierra Club — Available through Association Films, 25358 Cypress Ave., Hayward, California 94544. (Free)

The entire environmental crisis often seems to come to focus in a single area. The Everglades of southern Florida is one of the world's great homes for wildlife and man seems to be determined to try and destroy the area with everything in his power. Flood control and reclamation projects, a mammoth jetport, urban development, pesticides and poaching, all threaten this area, which might ultimately stand as a monument of man's ability to destroy . . . or to care.

4. **GARBAGE EXPLOSION** — C — 16m — Extension Media Center, University of California, Berkeley, California 94720. (Rental)

The solution to the growing Everests of garbage this nation produces daily lies within the conscience of every individual who fills the trash can at his own door. Should we consume less, permit only bio-degradable packaging, permit only recyclable packaging, or leave it up to the city with sanitary fill, composting and incineration? The film doesn't answer all these questions but offers an introduction to the problems of waste disposal, which can serve as a takeoff for classroom discussion and action programs.

5. **THE GIFTS** — C — 30m — Modern Talking Picture Service, 16 Spear St., San Francisco 94105. (Free)

We did nothing to earn our life-giving gifts of clean water, pure air and virgin land. But in the last two centuries we have squandered our birthright and scarred its beauty. This film is an appeal to Americans to recognize our heritage and recall our special pride in restoring the country to what it once was and what it can be again.

6. **TROUBLED WATERS** — C — 28m — U.S. Senate, Public Works Committee, Washington, D.C. (Free)

A film on the subject similar to the above.

films films films

films films films

7. GLEN CANYON — C — 26m — Sierra Club — Available through Association Films, 25358 Cypress Ave., Hayward, California 94544. (Free)

Glen Canyon is a particularly distressing film for it reminds us of what might have been, had it not been for man's indifference to his environment. Glen Canyon of the Colorado was a natural treasure carved over the millenniums but damned in months. The film, using a unique arrangement of slides, visits the canyon before and after the filling of Lake Powell. It teaches a bitter but essential lesson.

8. TWO YOSEMITES — C — 10m — Sierra Club — Available through Association Films, 25358 Cypress Ave., Hayward, California 94544. (Free)

A film on the subject similar to the above. The tragic destruction of Yosemite's twin valley, Hetch-Hetchy, is followed by one of the country's earliest conservation battles.

9. GRAND CANYON — C — 26m — Sierra Club — Available through Association Films, 25358 Cypress Ave., Hayward, California 94544. (Free)

Grand Canyon was spared the fate of Glen Canyon after conservation organizations and thousands of individuals exerted extreme pressure on Congress to rescind the plans to build two dams in the canyon. A part of that pressure was instigated by this film. Many people were familiar with the Grand Canyon from the rim but only a few from the river, where damage from the dams would be felt. The effort was so successful, paradoxically, that a severe overcrowding problem is developing as thousands discover the river trip through the Grand Canyon each year.

10. WILDERNESS RIVER TRAIL (Dinosaur National Monument) — C — 28m — Sierra Club — Available through Association Films, 25358 Cypress Ave., Hayward, California 94544. (Free)

A film on the subject similar to the above.

11. MARSHLAND IS NOT WASTELAND — C — 14m — National Audubon Society, 1130 - 5th Ave., New York, N.Y. 10028. (Rental)

That we consider one of Nature's most productive areas, the tidal marsh, as fit only for garbage dumps, industrial fill or subdivisions is a good indicator of how we managed to get into our present environmental mess. Who in the Conservation movement has not been involved, probably lately, in trying to protect some "worthless" lagoon or estuary or tidal flat from the bulldozer? This film does an excellent job of pointing out the value of marshes as food-producing areas and nursery grounds for mollusks and commercially important fish, for sea birds and migratory waterfowl, and for open space, beauty and passive recreation.

12. THE POND AND THE CITY — C — 16½m — Association Films, 25358 Cypress Ave., Hayward, California 94544. (Free)

A film on the subject similar to the above.

13. MULTIPLY AND SUBDUE THE EARTH — C — 60m — Indiana University, Audio-Visual Center, Bloomington, Indiana 47401. (Rental)

Is it possible for man to live with nature and not destroy it, to enjoy a good life and still leave the earth as vital and enriched as he found it? Ian McHarg thinks so and offers his ecology-based planning proposals as practical, sensible solutions. It is a film you wish every planning commissioner, city councilman, and public official would see, and after viewing it yourself, maybe you will have incentive enough to see that the message will, with effort, get through to them.

14. NO ROOM FOR WILDERNESS — C — 26m — Sierra Club — Available through Association Films, 25358 Cypress Ave., Hayward, California 94544. (Free)

A film on the subject similar to the above.

15. POPULATION ECOLOGY — C — 19m — Encyclopedia Britannica, 2494 Teagarden St., San Leandro, California 94577. (Rental)

We will never solve our environmental problems without coming to grips with overpopulation. And the most crucial step in stabilizing population is convincing people that overpopulation exists. This population film offers an effective tool to meet this goal.

films films films

16. PAVE IT AND PAINT IT GREEN — C — 27m — Extension Media Center, University of California, Berkeley, California 94720. (Rental)

Convincing a person that a road, or a store or any of the comforts of home can be undesirable under certain conditions is a hard point to make. Showing bad development is the best way and this film goes all the way visually by using no narration or commentary at all. If you tire of seeing all those traffic jams and parking lots when a sweep of the camera would reveal the loveliness of Yosemite, remember that only by awareness can we renovate the blighted landscape being shown.

17. THE REDWOODS — C — 20m — Sierra Club — Available through Association Films, 25358 Cypress Ave., Hayward, California 94544. (Free)

An Academy Award winner, this film helped create the Redwood National Park. That the park is much smaller than it should have been and that unrestrained logging on watersheds above the park is threatening what presumably had been saved, keeps this film timely. It is a breathtakingly beautiful film which has achieved a rightful place in any conservation film library.

We seem unconvinced that there is anything more to forest conservation than reseeding and preventing forest fires. The forests of the U.S., many of them, are still being raped and even the agencies established to prevent such things are either unwilling or unable to take action.

18. WASTED WOODS — C 15m — and **REDWOODS — SAVED?** — C — 3½m — Sierra Club — Available through Assocaition Films, 25338 Cypress Ave., Hayward, California 94544. (Free)

Both are films which complete the half-story told by forest products industries.

19. SLOW GUILLOTINE — C — 50m — NBC

This succeeds as a film about air pollution because it documents the problem, cuts through the sugar pills being handed out by Detroit and their apologists and tells the viewer that he can do something about it. The flood of letters reaching the TV station and other influential people, following its first showing in Southern California, was so great that a nationwide follow-up was deemed advisable! Jack Lemmon does an outstanding job as narrator.

films films films

Other air pollution films:

A. **POISONED AIR** — C — 50m — Extension Media Center, University of Calif., Berkeley 94720. (Rental)

B. **ILL WINDS ON A SUNNY DAY** — C — 30m — U.S. Senate, Special Committee on Air Pollution, Washington, D.C. (Free)

C. **THE RUNAROUND** — C — 17½m — National TB & Respiratory Disease Association. (Free)

20. TIME FOR MAN — C — 50m — The Ealing Corporation, 2225 Massachusetts Cambridge, Massachusetts 02140. (Rental)

A provocative and ambitious film, produced by the American Museum of Natural History, which provides a vignette of man's position in the environment. Life styles of animals and humans are examined and the question is introduced: can man learn to live with nature, or is he frozen into a way of life that can lead only to disaster?

21. A WONDERFUL BIRD WAS THE PELICAN — C — 26m — North American Films, 4440 Lakeside Drive, Burbank, California 91505. (Rental)

Is there anyone who still doesn't understand what is happening to our wildlife as the result of pesticides and other chemical poisons, and what might eventually happen to us? The message is so crucial that repetitiveness is no problem.

22. POISONS, PESTS AND PEOPLE — B&W — 60m — National Film Board of Canada, 44 Montgomery St., San Francisco, California. (Rental)

A near-classic on chemical pollutants.

films films films

filmstrips filmstrips

(Grades K-2)

Lifelike situations involving animals and children demonstrate the value of good conservation practices and the dangers of carelessness. The filmstrips introduce the basic concepts of forestry, land erosion and animal preservation.

1. **Sonny Squirrel and the Pine Trees**
2. **The Deer and the Haystack**
3. **A Picnic for Dick and his Friends**
4. **The Lamb and the Bluebells**
5. **Susan and the Forest Fire**
6. **The Muddy Raindrops**

Set of 6 captioned filmstrips, $27.00 from SVE, Inc., 1345 Diversey Parkway, Chicago, Illinois 60614.

(Grades 4, 5, 6)

These four filmstrips emphasize the importance of conservation by demonstrating the inter-relationships in nature:

1. **"The Cycle of Nature"** — Explains the dependence of the various branches of nature upon each other.
2. **"The Balance of Nature"** — Describes the wildlife community and tells how it is preserved through the maintenance of the balance of nature.
3. **"The Four Seasons"** — Describes how the wildlife community and the human community are affected by many of the same things.
4. **"Conservation"** — Describes how natural resources are destroyed through reckless or careless use.

A teacher's manual explains classroom projects and activities which compliment the content of each filmstrip. Available through: Universal Education & Visual Arts, 221 Park Avenue South, New York, New York 10003. Also: Eye Gate House, Inc., 146-01 Archer Avenue, Jamaica, New York 11435.

filmstrips filmstrips

(Grades 6-9)

This up-to-date analysis of the importance of conservation of natural resources explains the causes of problems and some possible solutions:

1. **Soil Conservation Today**
2. **Forest Conservation Today**
3. **Water Conservation Today**
4. **Wildlife Conservation Today**
5. **Mineral Conservation Today**
6. **Urban Conservation Today**
7. **Land Conservation Today**

Set of 7 Filmstrips, 4 Records and 7 Teachers' Guides for $49.00. Available from SVE, Inc., 1345 Diversey Parkway, Chicago, Illinois 60614.

(Grades 4-12)

A good introduction, with excellent pictures, to many current conservation problems.

1. **Nature of Crisis**
2. **Atmospheric Pollution**
3. **Land Pollution**
4. **Freshwater Pollution**
5. **Marine Pollution**
6. **Pollution Control**

A set of 6: #70W3800 for $40.00 from: Ward's Natural Science Establishment, Post Ofice Box 1749, Monterey, California or One set only available free, on loan from: Sierra Club, Angeles Chapter, Conservation Education Committee, Call: (212) 780-1087.

(Grades 7-12)

Developed to help acquaint young people with the use and abuse of the natural environment of the U.S., this series should stimulate discussion of the pollution problem. It does not provide an answer but should lead to meaningful research by which students can discover the extent of our pollution problem. They should also discover what part the government, the private citizen and industry can play in correcting the problem.

1. **An Overview**
2. **Atlantic Coastal Plain**
3. **Appalachian Highland and Piedmont**
4. **The Great Central Plain**
5. **Mississippi River System**
6. **Rocky Mountain — Great Basin**
7. **The Pacific Coast**
8. **Interdependent People**
9. **Niagara: River with the Wandering Waterfall (Part I)**
10. **Niagara: Wandering Waterfall (Part II)**

Complete set of 10 color filmstrips with 5 Cassette Teach-A-Tapes and teacher's manual for $87.50 or: Complete set of 10 filmstrips with 5 records and teacher's manual for $85.00 from Eye Gate House, Inc., 146-01 Archer Avenue, Jamaica, N.Y. 11435.

filmstrips filmstrips

(Grades 8-12)

This excellent series gets at man's attitudes and value-priorities which have caused today's ecological disasters. The excellent, contemporary photography is realistic and the narration poses many questions for class discussions.

1. **What is Ecology?**
2. **What is Pollution?**
3. **What is Air Pollution?**
4. **The Automobile Beyond Air Pollution**
5. **Prosperity = Pollution**

Five filmstrips, five records, five short teacher's guides. $49.75 from Multi-Media Productions, Inc., 580 College Avenue, Palo Alto, California 94306.

(Grades 6-12)

This set is a real find — a complete conservation unit in itself! It explores the present state of water, air and land in this country. The set contains 3 filmstrips, "Water for Tomorrow", "Air for Tomorrow" and "Land for Tomorrow", records, transparencies and overlays, a student booklet and a comprehensive teacher's guide, including an up-to-date bibliography. Also included in the teacher's guide are plans for a culminating class game concerning a hypothetical water, air or land situation.

3 filmstrips, 3 records, 3 student booklets, 3 teachers' guides, K.D.I. Instructional Systems, Inc. Columbus, Ohio 43220.

(Grades 8-12)

Students examine actions and proposals by public and private institutions for meeting current ecological crises. The series stresses that individual values and activities must be changed to improve the quality of life.

2 filmstrips, discussion guides and records 35.00
2 filmstrips, discussion guides and cassettes 39.00

from: Guidance Associates, Pleasantville, New York 10570

filmstrips filmstrips

(Grades 7-12)

This set investigates the despoliation and imbalance within the environment caused by both man and nature. Six basic ecosystems have been selected as focal points to study.

1. **Upland Forest**
2. **Lowland Forest**
3. **Marshes**
4. **Grasslands**
5. **Streams and Ponds**
6. **Tidal Zone**

Complete set of 6 captioned color filmstrips with teacher's manual: $35.00 from: Eye Gate House Inc., 146-01 Archer Avenue, Jamaica, N.Y. 11435.

(Grades 9-12)

Can man who created a brave new world, then turned upon himself to despoil it, rise to become the saviour of his own environment? This urgent question is explored in two major filmstrip sets of five filmstrips and three records each:

SET I **ECOLOGY AND ENVIRONMENT**
"Is There Life on Earth"
"The Ocean of Air"
"Water — Clear and Otherwise"
"Of Food and Land"
"Energy Applied"

SET II **MAN AND NATURE**
"Population — The Numbers Game"
"Concrete Habitat"
"The Busy-Body"
"Unthinking Man"
"Man: the Builder"

Each set of 5 sound/color filmstrips and 3 records is $59.00. AVI Associates, 825 Third Avenue, New York, N.Y. 10022.

(Grades 9-12)

"In wildness I sense the miracle of life and beside it our scientific accomplishments fade to trivia" says Charles A. Lindbergh as he guides students through nature as he sees it. He describes the frontier woodlands his own father knew and his years as aviator and observer of virgin wilderness. With him, students consider the threat of technology to unspoiled lands and resources.

1 filmstrip, discussion guide and 1 record $18.00
1 filmstrip, discussion guide and 1 cassette $20.00

from: Guidance Associates, Pleasantville, New York 10570.

filmstrips filmstrips

(Grades 9-12)

Students review the ugly and tragic death of Lake Erie, the Santa Barbara oil disaster and other current problems to document the potentially devastating impact of air, water and noise pollution on life in the U.S. Comments from Glenn Seaborg, Chairman, A.E.C., Senator Gaylord Nelson, former Secretary of the Interior, Stewart Udall and scientist Barry Commoner.

Discussion guide, 2 filmstrips and 2 records — $35.00
Discussion guide, 2 filmstrips and 2 cassettes — $39.00

from: Guidance Associates, Pleasantville, New York 10570.

(Grades 9-12)

Winner of American Film Festival Honors in 1969, Part I of this series explores the reasons for the population explosion and all effects it has had. Part II examines methods for controlling population growth. Students see efforts to develop fish-based foods and miracle grain crops and consider the work of the U.N. in this area.

2 filmstrips, discussion guides and 2 records $35.00
2 filmstrips, discussion guides and 2 cassettes $39.00

from: Guidance Associates, Pleasantville, New York 10570.

Printed Materials

$18.00 ENVIRONMENTAL BOOKSHELF

Leopold, Aldo. **A Sand County Almanac.** Sierra Club/Ballantine Books. 95c.

Aldo Leopold, one of this country's most famous natural historians, eloquently describes the joy and beauty found in a style of life that protects the environment. Included is his classic essay on the need for an ecological ethic.

Swatek, Paul. **The User's Guide to the Protection of the Environment.** Ballantine Books. $1.25.

Finally, an **everyday** action book for environmentally conscious people. The author describes the decisions we can make which will improve or deteriorate our environment. Specifically, he describes products by brand names and discusses those which are ecologically safe. Besides its obvious usefulness in the home, it is also an appropriate resource for class discussions.

Shepard, Paul, and Daniel McKinley. **The Subversive Science.** Houghton Mifflin. $5.95.

This is one of the most meaningful and diverse collections of environmental writings to date. Paul Shepard introduces it with a succinct and insightful essay on man's relationship to his environment. The book's latitude can be gauged by the main subject headings: "Man as Population," "The Environmental Encounter," "Men and Other Organisms," "Men in Ecosystems," "Ethos, Ecos, and Ethics"

Ehrlich, Dr. Paul R. **The Population Bomb.** Ballantine Books. 95c.

The dominant problem in all our personal, national and international planning is overpopulation, according to Dr. Ehrlich. He clearly describes the dimensions of the crisis in all its aspects and provides a realistic evaluation of the options still remaining to us.

Rienow, Robert and Leona Train. **Moment in the Sun.** Sierra Club/Ballantine Books. 95c.

Subtitled "A Report on the Deteriorating Quality of the American Environment," this angry report thoroughly documents man's accelerating destruction of his own habitat. Item by item, the Rienows present the ways in which we have ignored ecological principles and abused our environment under the pressures of over-population and a creed of exploitation. The last chapter, "Prolonging Our Moment in the Sun", offers a carefully considered suggestion for bringing us into equilibrium with our environment.

Marx, Wesley. **The Frail Ocean.** Sierra Club/Ballantine Books. 95c.

A fine companion volume to Rachel Carson's **Silent Spring,** this stunning, angry report will grow in importance with each new ocean disaster.

Russell, Terry and Renny. **On the Locse.** Sierra Club/Ballantine Books. $3.95.

In this unusual, highly personal book, Terry and Renny Russell share with the reader their insights gained while exploring the natural world — "the corners that were spared" — as Terry calls it. Brilliant photographs chronicle their journeys and, in addition to their text, are quotes from such writers as Joyce, Thoreau, Shaw and Leopold.

Carson, Rachel. **Silent Spring.** Fawcett Crest. 95c.

In this contemporary classic in ecological literature, Rachel Carson describes man's alarming and indiscriminate use of synthetic pesticides and their effect on water quality, soil, plants, birds, and fish. **Saturday Review** hailed it as "a devastating attack on human carelessness, greed and irresponsibility."

Dasmann, Ray. **The Destruction of California.** Macmillan. $1.50.

The tragic story of a state bent on environmental suicide is graphically told and possible actions to avert the crisis are described.

An excellent annotated bibliography all teachers might note:

Conservation Education: A Selected Bibliography, compiled by Joan Carvajal and Martha E. Munzer, for the Conservation Education Association. Order from The Interstate Printers and Publishers, Inc., Danville, Illinois.

Literature

Who knows definitively how and where our values are shaped? Surely they are shaped by many forces — home, school, friends and experiences are some. Through books, many different value systems may be explored. The few books selected below present, implicitly or explicitly, the values of writers acutely aware of their environment. They are lovers of the natural world they live in. Read some of these books, and, best of all, share them with children by reading selected parts aloud.

Eisley, Loren. **The Immense Journey.** Vintage.

Naturalist-writer Eisley shares his reflections on our evolutionary journey through time. Pervading the book is his respect for all manner of living things — perhaps the most basic ecological ethic of all.

Stegner, Wallace. **All the Little Live Things.** Signet.

This very contemporary novel explores a most important aspect of the ecological crisis — the clash of various personal values in respect to the environment. Set in a suburban area of California, Stegner's protagonists struggle to cope with the destructive elements in our society.

Krutch, Joseph Wood. **The Desert Year.** Viking Compass Book.

While describing the subtleties of the seasons in the American Southwestern desert, Krutch also reveals his unique philosophy relating to the natural world.

Deal, Borden. "Antaeus". **Ten Top Modern American Short Stories.** Bantam.

This brief story describes the plight of a farm boy moved to a large city. His problem, posed by the absence of accessible earth for planting, is overcome but not without tragedy.

Maxwell, Gavin. **The Otter's Tale.** Dutton.

Maxwell repeats his famous **Ring of Bright Water** story for children by leaving out much of the description of Scotland's coast, but introducing the charms of a new otter, Teko.

Milne, Lorus J. **The World of Night.** Harper.

Although an unlighted world is alien to man, still much of the world's life goes about its business after the sun sets. This fascinating book explores this dark world and the inter-relationships among its inhabitants.

North, Sterling. **Rascal: a Memoir of a Better Era.** Dutton.

A young boy raises a raccoon and experiences the wonder of sharing life with one of the wild world's most entertaining creatures.

Russell, Franklin. **Watchers at the Pond.** Knopf.

The unexpectedly dramatic story of a year's cycle within the teeming universe of a pond.

Ogburn, Charlton. **The Winter Beach.** Morrow.

Poetically and simply, Ogburn relates the experiences of walking the beaches and exploring the marshes of New England, unbothered by the summer crowds.

Smith, Agnes. **An Edge of the Forest.** Viking.

The leopard lies down with the lamb in a quiet, gentle, almost philosophic story of nature in which man is the only intruder.

Carson, Rachel. **A Sense of Wonder.** Harper Torch.

Rachel Carson's words and the unusually beautiful photographs of earth and sea and sky will help to keep alive a child's sense of wonder and that of the adult who shares the book with him.

A Variety

1 **"Keep America Beautiful"** (Grades K-6). A public service booklet of anti-litter poems and songs by Henry Gibson, singer and actor. Prepared by Mr. Gibson & Lennan & Newell, Inc., a volunteer Advertising Council agency. Contact the Advertising Council in your area.

2 **Audubon Aids in Natural Science** (Grades K-12). A free pamphlet listing a variety of booklets, programs, charts, bulletins, etc. which are available, at low cost, from the Audubon Society. Write Educational Services, National Audubon Society, 1130 Fifth Avenue, New York, N.Y. 10028.

3 **People and Their Environment,** edited by Matthew J. Brennan (also Director of The Pinchot Institute for Conservation Studies). A new series of teaching guides to Conservation Education for elementary, junior and senior high schools. Each guide includes between 43 and 80 individual lessons, lists of instructional materials (films, pamphlets, charts, filmstrips, records) and where to find them. A complete bibliography for teachers is also included.
The individual guides are:

Grades 1-2-3
Grades 4-5-6
Grades 7-8-9
Grades 10-11-12 (Social Studies)
Grades 9-10-11-12 (Home Economics)
All Grades (Outdoor Classroom & Camping)

The guides are $3.95 each. For three or more volumes, $3.50 each, from J. G. Ferguson Publishing Company, 6 North Michigan Avenue, Chicago, Illinois 60602

4 **Conservation News.** This 15-20 page, twice monthly newsletter, is printed to fit in a looseleaf binder. As teacher resources, the articles are both political and ecological, very well-written and up-to-date. Occasionally, transparency-master cartoons are included. It is printed as an educational service of the National Wildlife Federation, 1412 Sixteenth St., N.W., Washington, D.C. 20036. Single copy subscriptions are free.

5 **Our Polluted World.** A 45-page, well illustrated, social studies unit book for grades 7-12. This booklet helps students understand the social and scientific factors involved in air and water pollution, then shows how this knowledge can be applied to solving urgent pollution problems. It discusses air pollution control, oil pollution of the seas, and pollution by radioactivity. 35c each, available from American Education Publications, Education Center, Columbus, Ohio 43216.

6 **Conservation Yearbooks** from The Department of the Interior:

A. **It's Your World.** The story of people who have struggled to improve our environment and how they did it. $2.00
B. **Quest for Quality.** A description of the kind of natural world we seek to establish. $1.00
C. **The Population Challenge.** An examination of the environmental stress created by population pressures. $1.25
D. **The Third Wave.** An analysis of the new ecological approaches to conservation. $2.00
E. **Man — An Endangered Species?** A sounded alarm over the increasing destruction of the human habitat. $1.50

Order from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.

7 **Conservation Chart.** (Grades 4-7) A class learning activity which has students work with a large chart of two river valleys, Muddy River Valley and Clear River Valley. By reading the booklet accompanying the chart they learn about the two valleys and cut out fish, birds and animals to place in the appropriate part of the valley. Two or three students could work on each chart. Available for $1.00 each, lower prices in quantity, from the Sport Fishing Institute, 719 - 13th St., N.W., Washington, D.C. 20005.

8 **Our Man-Made Environment,** published by the Group for Environmental Education and can be used in grades 7-9. A most unusual and exciting text-workbook dealing with "that part of the world which we have made for ourselves — the places in which we live and learn and play. These places include our houses, schools, parks, streets, neighborhoods and cities." This book asks four basic questions: 1. "What is the Man-Made Environment?, 2. Why do we build the Man-Made Environment?, 3. What forces affect the shape of the Man-Made Environment?, 4. How can we change the Man-Made Environment?" Several different kinds of problems are proposed for students to work through, some by discussion and some by constructing various forms and buildings included on the tear-out pages which alternate with the text. Single copies, $4.75 plus tax and shipping, from Joseph Fox, 1724 Sansom St., Philadelphia, Pa. 19103. Prices for multiple copies from GEE! Group for Environmental Education, 1214 Arch Street, Philadelphia, Pa. 19107. Telephone: (215) LO 4-4403.

9 **A Place to Live,** published by the National Audubon Society, grades 4-6. A 64-page workbook which covers basic ecological concepts, as found in any urban environment. It is designed to be self-motivating and is written simply enough (3rd grade level) to be read independently by most fourth or fifth graders. Woven into the text are "Try This!" activities (writing, drawing, or group activities or experiments) which sustain the children's interest and amplify the concepts introduced. The booklet also includes nine "Walks" related to the text and not requiring transportation. Many ideas for supplementary experiences are included in the Teacher's Manual. Student texts are 75c each and the Teacher's Manual is $1.50, from Educational Services, National Audubon Society, 1130 Fifth Avenue, New York, N.Y. 10028.

10 **1970 E.Q. (Environmental Quality) Index.** "America is in Trouble", published by the National Wildlife Federation. This brilliantly colored and illustrated pamphlet is a report card for the American environment in 1970. The very clear charts, graphs and illustrations show students where we stand now in regard to our air, water, wildlife, timber, soil, minerals and living space. Very succinct suggestions for improving all areas included. Single copy free, 10-29 copies, 15c, 30-99 copies, 12c, 100-499 copies, 11c, from National Wildlife Federation, 1412 - 16th St., N.W., Washington, D.C. 20036.

11 **"You and Nature".** (Grades 6-8). A large, colorfully illustrated 4 page pamphlet which compares good and bad conservation practices by asking students "Which America Do You Choose?" Excellent motivation for discussions or projects. Available free from The Department of Education, Office of Conservation, Sacramento, California 95814.

12 **Conservation-Fire Prevention Packet.** (Grades K-3). In California, 20-30% of all forest fires are caused by children. Alarmingly enough, studies indicate that the majority of these fires are caused by children under 10 years of age. The California Division of Forestry's objective in these units is to reduce the incidence of children-caused fires through an education process within the early elementary school programs. The program's specific purpose is to satisfy the child's curiosities about fire; to help the child understand and appreciate the cause and effect relationship of his actions; and to help the child understand fire's harmful effects to himself, others and his environment.

These units are completely visual and are well-suited to an inquiry approach. The packets contain teacher information, guidelines, student activities, and many visual aids on subjects of conservation and fire prevention. Available at $6.00 each, plus tax, from the State of California, Department of Conservation, Division of Forestry, 1416 Ninth Street, Sacramento, California 95814.

13 **What's Ecology?** (Grades 9-12). A 51 page booklet by Robert Evans of Campolindo High School, Moraga, California. This is a well-illustrated, clear survey introduction to the field, quite appropriate for science classes. Included is an up-to-date bibliography of books and magazines. Individual copies are $2.00; in bulk for classroom use, 50c. Order from Ecology Action Educational Institute, Box 3895, Modesto, California 95352.

14 **Ecology: Man Explores Life.** (Grades 7-9), by Jacqueline L. Harris, Erwin A. Steinkamp and the staff of **Current Science.** A study of ecology through case studies of scientists at work. As readers absorb ecological concepts, they also acquire an understanding of scientific problem-solving techniques in relation to their environment. Available at 35c each from American Education Publications, Education Center, Columbus, Ohio 43216.

15 **Big Rock Candy Mountain,** Winter 1970, a most unusual teaching catalogue published by The Portola Institute, Inc., 1115 Merrill St., Menlo Park, California 94025. Single copies, $4.00; 6 issues per year, $8.00. "The **Big Rock Candy Mountain** seeks to aid in the acquisition of this knowledge: not by molding the learner into a preestablished pattern, but by providing resources to help him quench his thirst; not by teaching meaningless stockpiling leading to a dissatisfied life, but by encouraging growth in the present leading toward a joyous old age; not by changing people, but by awakening a desire to change. This is our motivation for doing this catalogue."

Page 32: The Wilderness School and The Outward Bound program.

Page 33: Environmental Education films and filmstrips.

Page 34: Farallones Designs/Institute

Page 35: Our Man-Made Environment

plus 92 other pages of unusual education materials for all ages.

16 **Ecology: Man on Earth** (Grades 9-12, English classes). This kit focuses on four literary works: Steinbeck's **The Grapes of Wrath,** Thoreau's **The Best of Walden,** Adamson's **Born Free** and Faulkner's "The Bear". A teacher's guide has commentaries on the books, plus presentation plans, discussion questions and activities. Accompanying the guide are three large posters dealing provocatively with ecological themes and a photo pack, "Man and Environment", 12 8"x10" photo reproductions showing the disastrous effects of environmental decay on human lives. Some of the photos show the eroded land and the people of the Dust Bowl era to accompany **The Grapes of Wrath.** Other photos of urban decay relate directly to the problem of people leaving the ravaged farmlands in search of a better life. Kit available for $3.50 from Scholastic Book Services, 904 Sylvan Avenue, Englewood Cliffs, New Jersey 07632.

17 **An AEP Ecology Program.** (Grades 4-8), coming in the summer of 1971. This series of five books will help students develop an understanding and appreciation of the intricate balance that exists between all forms of life and their supporting habitat. The major concepts and related understandings will be taught through an activity-centered approach involving reading and personal experience. Also, each book will have approximately four case studies for the student to read. A teacher's guide will accompany each book. More information on the series can be obtained from American Education Publications, Education Center, Columbus, Ohio 43216.

18 **Life Science Investigations: Man and the Environment.** (Grades 6, 7) by Frederick A. Rasmussen, Paul Holobinko, and Victor M. Showalter. This excellent, comprehensive life science book includes an entire unit on how man affects the environment. There are six major investigations in this unit:

1. Who pollutes your environment?
2. Is Lake Erie dead?
3. What is the price of progress?
4. What can we do about pests?
5. Why is clean air important?
6. The pollution game

A unique set of evaluation materials has been designed for this course. Following each investigation are one or more Mastery Items in which the student applies both knowledge and skills gained from working on related problems. The most significant feature of this text is that all its investigations focus on real problems where biology, technology, and society meet. Information on this text is available from Houghton Mifflin, 777 California Avenue, Palo Alto, California 94304.

19 **National Environmental Education Development.** The goal of the NEED program is to foster an appreciative and critical environmental awareness in our youth, through an understanding of the interactions of natural and social processes illustrated in National Park areas. Its further aim is to increase the will and capacity to improve the environment. Phase I of the NEED program emphasizes the appreciative level in an encounter with natural phenomena at an environmental school site, with emphasis on academic, aesthetic, and skill interpretations. This phase focuses on elementary-school levels. Phase II for the intermediate level of the program centers on man's positive and negative utilization of his natural resources, and his efforts to rectify a self-imposed contaminated environment through technological applications. Phase III (high school) will develop the necessity for environmental ethics, centered on attitudes of the individual. It will integrate the disciplines of political science, economics, and sociology. For further information on this new program write: Director, National Park Service, U.S. Department of the Interior, Washington, D.C. 20240.

The Ecology Controversy by Gary E. McCuen and David L. Bender. Volume Three of **Opposing Viewpoints Series.** This exciting 100 page booklet was prepared by two teachers to foster critical thinking, the ability to empathize, the skill to see both cause and effect and the difference between fact and opinion. There are readings, case studies and inquiry exercises. The areas covered are:

Chapter 1 — The Population Controversy
Chapter 2 — The Nuclear Radiation Controversy
Chapter 3 — The Air Pollution Controversy
Chapter 4 — The Religious, Political and Economic Consequences of the Ecology Controversy

Available at $1.65 per single copy from the Greenhaven Press, Box 831, Anoka, Minnesota 55303.

Grade Teacher, January, 1969. This particular issue included many articles relevant to ecological conservation at the elementary grade level. Some are:

"Four Ecological Concepts You Must Get Across", pp. 110-114.
"How It Can Be Taught", pp. 100-109.
"Programs You Should Know About", pp. 122-125.
"Ecology: Why You Must Teach It", pp. 93-99.
"From Here to Ecology", p. 20+.

Periodicals

This field, our most up-to-date resource, is shared by the stalwarts who have been publishing for years and the new, crisis-oriented fledglings who are struggling for survival. Below is a selection of both types: (Those with an asterisk are for students).

I. Weekly Periodicals

1. **National News Report**
   (12.00/yr.)
   Sierra Club
   1050 Mills Tower
   San Francisco, Calif. 94104

2. **CF Letter**
   ($6.00/yr.)
   The Conservation Foundation
   1250 Connecticut Ave., N.W.
   Washington, D.C. 20036

3. **Environmental Action Bulletin**
   ($10.00/yr.)
   Rodale Press, Inc.
   Emmaus, Pa. 18049

4. **Conservation Report**
   National Wildlife Federation
   Washington, D.C. 20036
   1412 - 16th St., N.W.

*5. **My Weekly Reader** and **Senior Weekly Reader**
   (60c per pupil, per school year for 10 or more copies;
   $1.20 per for less than 10)
   American Education Publications
   Education Center
   Columbus, Ohio 43216

II. Periodicals by Membership

1. **Sierra Club Bulletin**
(Annual dues are $12.00 first year $17.00, of which $3.00 is for the **Bulletin**.)
Sierra Club
1050 Mills Tower
San Francisco, Calif. 94104

2. **Natural History**
($7.00/yr.)
The American Museum of Natural History
Central Park West, at 79th St.
New York, N.Y. 10024

*3. **Ranger Rick's Nature Magazine**
($6.00/yr.)
The National Wildlife Federation
1412 Sixteenth St., N.W.
Washington, D.C. 20036

4. **Cry California**
($9.00/yr)
California Tomorrow
Monadnock Building
681 Market Street
San Francisco, Calif. 94105

5. **National Wildlife**
The National Wildlife Federation
1412 Sixteenth St., N.W.
Washington, D.C. 20036

6. **Audubon**
($10.00/yr. — Individual)
($12.50/yr. — Family)
National Audubon Society
1130 Fifth Avenue
New York, N.Y. 10026

III. Periodicals by Subscription

1. **Not Man Apart**
($5.00/yr.)
Friends of the Earth/ **Not Man Apart**
8016 G Zuni Road
Albuquerque, N.M. 87108

2. **Environment**
($8.50/yr.)
Environment
438 North Skinker Blvd.
St. Louis, Mo. 63130

*3. **The Curious Naturalist**
($2.00/yr.)
The Curious Naturalist
Massachusetts Audubon Society
Lincoln, Mass. 01773

*4. **Science News**
$7.50/yr.)
Science News
231 West Center St.
Marion, Ohio 43302

records records

A most entertaining and pervasive medium for reaching people of all ages is the phonograph record, broadcast around the clock and collected widely by young people. And when the song lyrics on records deal tellingly with our environmental crisis, there is a huge audience to be reached. Increasingly today, singers and folk/rock groups are singing of our environmental dilemma and our students are listening. Records on these topics should be heard and discussed often in the classroom both for the values they are espousing and for the metaphorical implications in their lyrics.

Below are listed two classic albums, but compiling a larger list is not the work of teachers, but of their students who are in daily touch with the music and can fill the classrooms with their own chosen examples.

1. "Pollution" on **That Was The Year That Was** by Tom Lehrer. Reprise #6179.
2. Many songs on the album **God Bless the Grass** by Pete Seeger. Columbia #9232.

games games games

The growing field of simulation games offers several in the field of ecology or environmental control. Because many of these incorporate role-playing techniques in decision-making situations, they directly involve the student, provide him with up-to-date information and make him responsible, in the game's context, for his actions. When the games' premises and information have been checked for accuracy, what better all-around learning tool do we have available to us?

1 **MAN IN HIS ENVIRONMENT** (Grades 4-6) was developed as a public service by Coca-Cola. An Ecology Kit contains a teacher's guide which includes a short glossary of current terms and guidelines plus materials for the two exercises below:

Rescue in Space is designed to help children understand the principle that because the resources of the planet Earth are limited, we must learn to use our resources wisely and to reuse them where possible.

Make Your Own World is designed to help children understand that all elements of the environment are interrelated and interdependent. When man changes the environment, it has consequences not only for himself, but for other forms of plant and animal life, and for the soil, air and water.

The kit, games included, is available free to educators by calling or writing the local Coca-Cola Bottling Company.

2 **SMOG** and **DIRTY WATER.** Two games from Urban Systems in which each participant is a pollution control officer for his city and must deal with ever changing factors in regard to the environment. Available at $10.00 each from Urban Systems, Inc., 1033 Massachusetts Ave., Cambridge, Mass. 02138.

3 **ECOLOGY KITS (Grades 9 through adult)**. These game kits cover many different ecological areas.

1. "Why Are Leaves Green" is about the unique ability of plants to use light to make their own food.
2. "Life in the Water" is about the tiny aquatic plants and animals that form the basis of all life in the water.
3. "Predator Prey" is about population growth and decline. It focuses on competitive predator-prey relationships in an ecosystem.
4. "What Moves Life" concerns the dependence of every organism on the physical factors in its environment.
5. "Life from Death" explores the recycling of energy whereby dead plants and animals become the building blocks for even the most advanced living organisms.

Available at 6.00 each from Urban Systems, Inc., 1033 Massachusetts Ave., Cambridge, Mass. 02138.

4 **NEW GAMES** to be released anyday: A series of environment games for grades 7-12. They are:

1. "Mouse in the Maze" for 2 players.
2. "Planet Management" for 4-5 players.
3. "The Redwood Controversy" for the whole class.
4. "The Pollution Game" for 4-5 players.

Soon to be available from Houghton Mifflin, 777 California Ave., Palo Alto, California 94304.

ORGANIZATIONS

Organizations are often used gratefully by teachers simply as dispensers of materials and information. The present situation in environmental education demands more from teachers now. They must commit themselves — their energies and time — to the organizations which are fighting to preserve our tenuous hold on this planet. Though increased teacher involvement in the work of conservation organizations will come more and better environmental educational programs.

Below are a very few organizations selected from a vast field. If the names of all the active conservation organizations from 'Save the Sea Otter" to the "Committee for Green Foothills" were to be included, this slight booklet would grow beyond reasonable proportions. However, included also are resource booklets in which you can obtain information about governmental organizations and those in your area.

Friends of the Earth
30 East 42nd Street
New York, N.Y. 10017

National Audubon Society
1130 Fifth Avenue
New York, N.Y. 10028

National Wildlife Federation
1412 - 16th Street, N.W.
Washington, D.C. 20036

Nature Conservancy
1522 K Street, N.W.
Washington, D.C. 20005

Sierra Club
220 Bush Street
San Francisco, Calif. 94104

Wilderness Society
725 - 15th Street, N.W.
Washington, D.C. 20005

Zero Population Growth
367 State Street
Los Altos, Calif. 94022

Ecology Begins at Home, A Household Environmental Handbook
Ecology Action
San Fernando Valley State College
9520 Etiwanda Avenue
Northridge, California 91324

Ecology Center
2179 Allston Way
Berkeley, California 94704

Conservation and Environmental Organizations
Sierra Club
1050 Mills Tower
220 Bush Street
San Francisco, Calif. 94104

General Guidelines for Environmental Involvement
Angeles Chapter, Sierra Club
427 W. Fifth St.
Los Angeles, Calif. 90013

Conservation Education Resource Directory
Conservation Education Office
Department of Education
721 Capitol Mall
Sacramento, Calif. 95814

Commitment

DO YOU collect your papers for recycling?

DO YOU use returnable bottles only?

DO YOU use or buy plastics and wax-coated containers as little as possible, knowing that presently they are not recycled?

DO YOU if you use aluminium, always feel obligated to recycle it?

DO YOU buy and use bio-degradable soaps rather than detergents?

DO YOU use electrical power as a luxury, not as a necessity?

DO YOU support a conservation organization with either your time or your money?

DO YOU ever litter?

"If I cannot do great things,
I can do small things in a great way."

Notes